

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 5,550,753

Page 1 of 6

DATED : August 27, 1996

INVENTOR(S) : Michael E. Tompkins, et al

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The title page, showing an illustrative figure, should be deleted and substitute therefor the attached title page.

Delete drawing Figs. 1-5, and substitute therefor drawing Figs. 1-5, as shown on the attached pages.

Signed and Sealed this
Twenty-second Day of July, 1997



Attest:

BRUCE LEHMAN

Attesting Officer

Commissioner of Patents and Trademarks

United States Patent [19]

Tompkins et al.

[11] Patent Number: **5,550,753**
 [45] Date of Patent: **Aug. 27, 1996**

[54] MICROCOMPUTER SPA CONTROL SYSTEM

5,361,215 11/1994 Tompkins et al. 364/505

[75] Inventors: Michael E. Tompkins, Missouri City;
 Michael J. Green, Houston, both of
 Tex.

FOREIGN PATENT DOCUMENTS

0009249 4/1980 European Pat. Off.
 256287 10/1985 France
 60-14677 1/1985 Japan

[73] Assignee: Irving C. Siegel, Houston, Tex.

OTHER PUBLICATIONS

[21] Appl. No.: 385,062

[22] Filed: Feb. 7, 1995

Related U.S. Application Data

[63] Continuation of Ser. No. 162,420, Dec. 3, 1993, abandoned,
 which is a continuation of Ser. No. 54,581, May 27, 1987,
 abandoned.

[51] Int. Cl.⁶ G06F 17/00

[52] U.S. Cl. 364/505; 364/557; 236/12.12;
 4/541.1

References Cited

U.S. PATENT DOCUMENTS

4,204,204	5/1980	Pistick	340/712
4,215,398	7/1980	Burkett et al.	364/101
4,322,297	3/1982	Bajka	210/742
4,368,549	1/1983	Ramey	4/493
4,381,031	4/1983	Whitaker et al.	165/39
4,385,724	5/1983	Ramey et al.	236/25 A
4,398,789	8/1983	Pryor	350/96.10
4,404,697	9/1983	Haicher	4/492
4,406,550	9/1983	Gray	374/110
4,409,694	10/1983	Barrett, Sr. et al.	4/545
4,410,791	10/1983	Eastep	219/307
4,421,270	12/1983	Raleigh et al.	236/20 R
4,527,246	7/1985	Mason	364/505
4,563,780	1/1986	Pollack	4/192
4,564,962	1/1986	Castleberry et al.	4/543
4,621,613	11/1986	Krumhansl	126/416
4,682,728	7/1987	Oudenhoven et al.	236/12
4,693,415	9/1987	Sturm	236/12.12
4,696,428	9/1987	Shakalis	236/12.12
4,711,392	12/1987	Kidouchi et al.	236/12.12
4,713,525	12/1987	Eastep	219/308
4,757,943	7/1988	Sperling et al.	236/12.12
4,768,705	9/1988	Trutsui et al.	236/12.12
4,780,917	11/1988	Hancock	4/544

"Hydrotouch II, Digital Command Center" by BakerHydro,
 Inc., a division of TOLO, Incorporated, 1981.

"Spa-Troller, The Computerized System" by the Spa-Trol
 Company (no date).

Spa Troller Newsletter, Issue No. 1; Oct. 12, 1981; (2 pp.).

Spa Troller Newsletter, Issue No. 3; Dec. 18, 1981; (2 pp.).

Spa Troller Newsletter, Issue No. 4; Mar. 1982; (2 pp.).

Spa Troller Newsletter, Issue No. 5; Jun. 1, 1982; (2 pp.).

Spa Troller Newsletter, Issue No. 5; Sep. 1982; (1 pp.).

Photographs (2 pp.) (no date).

Graphic of a Spa-Trol; (1 pp.) (no date).

Sentry 700 Series—"701" and 724 Installation and Owners
 Manual copyrighted 1988 and revised Jun. 1990.

Balboa 700 Series Schematic dated Oct. 19, 1988 and
 revised Dec. , 1988. Deposition of Glenn Gould, vol. 1,
 Mar. 11, 1996; (p. 1-75) (no date).

(List continued on next page.)

Primary Examiner—Ellis B. Ramirez

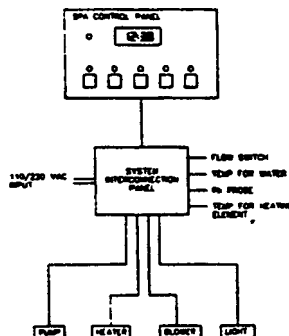
Attorney, Agent, or Firm—Chamberlin, Hrdlicka, White,
 Williams & Martin

[57]

ABSTRACT

An improved spa control system is disclosed. The improve-
 ments may be made individually or in conjunction with any
 combination of all of the other improvements of the present
 invention. The invention describes a spa control system
 which calculates the rate of heating of the heater of the water
 in the spa to control the operation of the heating element.
 The system uses a interconnection panel to link a control
 panel to the power supply and to the operative components
 of the system. The unique connection of the control panel to
 the interconnection panel permits the control panel to be
 located adjacent to the spa.

13 Claims, 4 Drawing Sheets



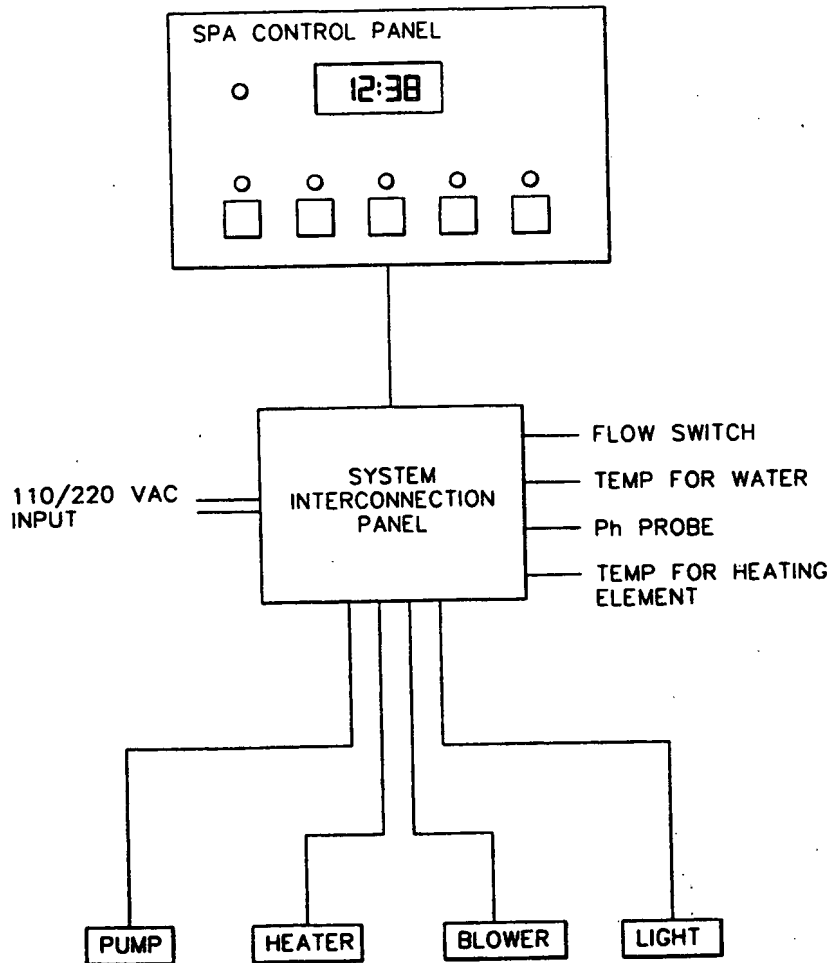


FIG. 1

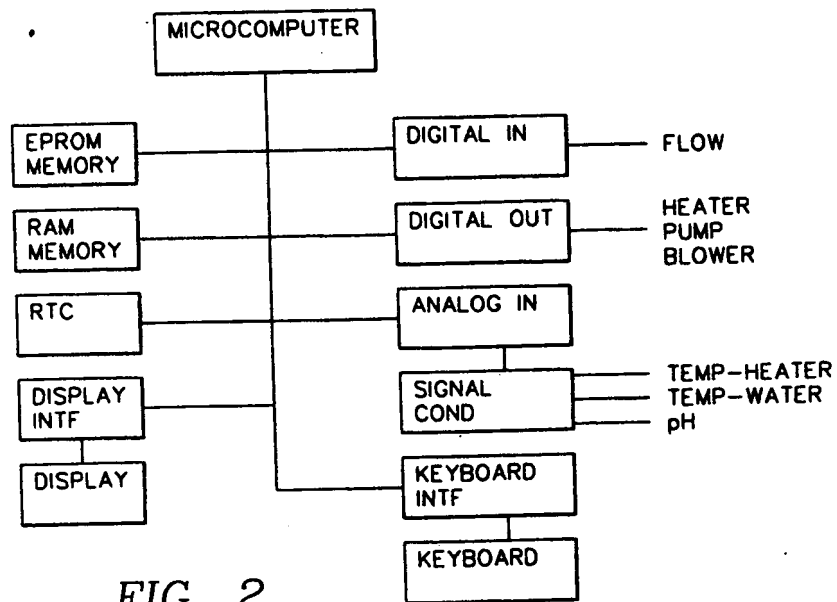


FIG. 2

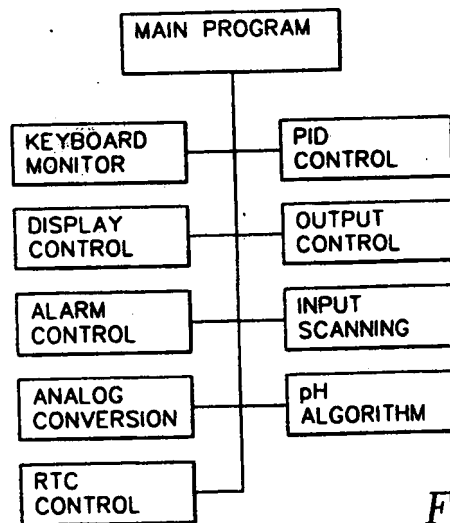


FIG. 4

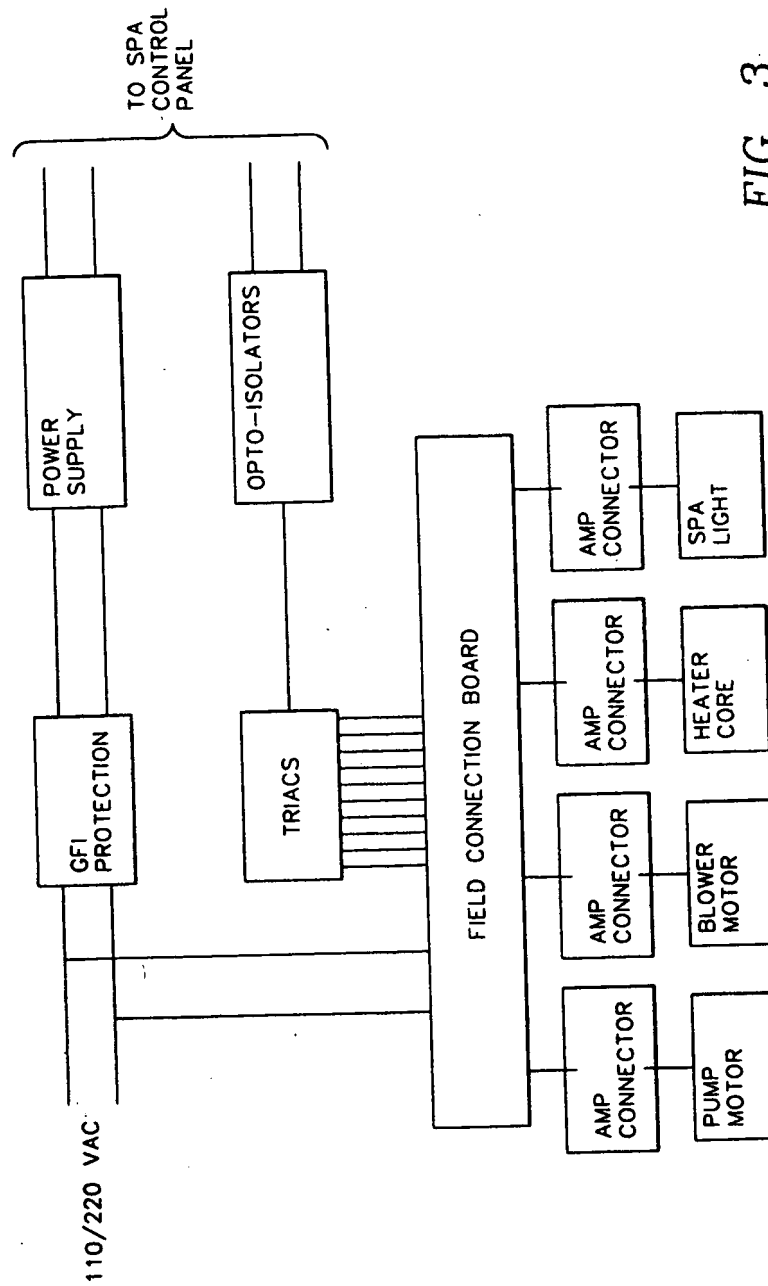


FIG. 3

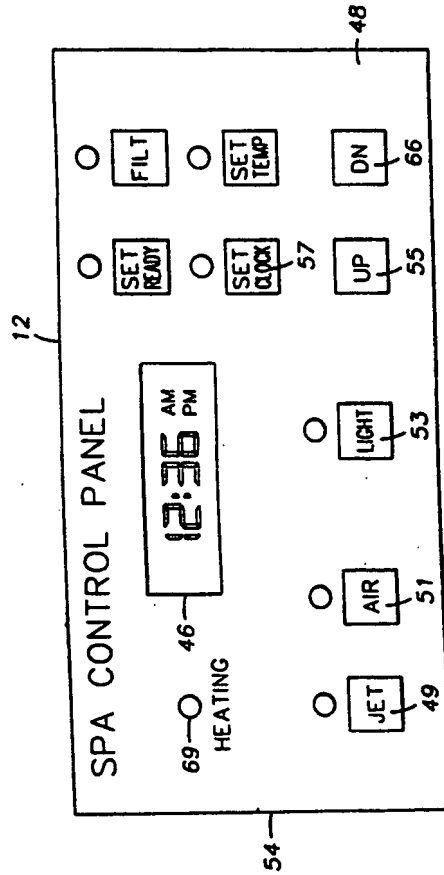


FIG. 5